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<u>L7</u>	(robust controller) and (d-k)	1	<u>L7</u>
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adj closed adj loop)  
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0 L1

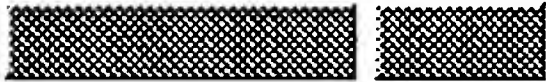
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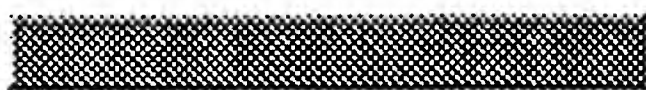
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**2.  $\mu$ -synthesis for the coupled mass benchmark problem**Niemann, H.H.; Stoustrup, J.; Toffner-Clausen, S.; Andersen, P.;  
American Control Conference, 1997. Proceedings of the 1997  
Volume 4, 4-6 June 1997 Page(s):2611 - 2615 vol.4[AbstractPlus](#) | Full Text: [PDF\(508 KB\)](#) IEEE CNF**3. D-K iteration with optimal scales for systems with time-varying and time-invariant**Blue, P.A.; Banda, S.S.;  
American Control Conference, 1997. Proceedings of the 1997  
Volume 6, 4-6 June 1997 Page(s):3967 - 3971 vol.6[AbstractPlus](#) | Full Text: [PDF\(544 KB\)](#) IEEE CNF**4. Evaluating D-K iteration for control design**Lind, R.; Balas, G.J.; Packard, A.;  
American Control Conference, 1994  
Volume 3, 29 June-1 July 1994 Page(s):2792 - 2797 vol.3[AbstractPlus](#) | Full Text: [PDF\(540 KB\)](#) IEEE CNF**5. Convergence analysis of a parametric robust  $H_2$  controller synthesis algorithm**Banjerdpongchai, D.; How, J.P.;  
Decision and Control, 1997., Proceedings of the 36th IEEE Conference on  
Volume 2, 10-12 Dec. 1997 Page(s):1020 - 1025 vol.2[AbstractPlus](#) | Full Text: [PDF\(616 KB\)](#) IEEE CNF**6. A new design method for robust  $H_2$  controllers using Popov multipliers**Yang, K.Y.; Hall, S.R.; Feron, E.;  
American Control Conference, 1997. Proceedings of the 1997  
Volume 2, 4-6 June 1997 Page(s):1235 - 1240 vol.2[AbstractPlus](#) | Full Text: [PDF\(572 KB\)](#) IEEE CNF**7. A sequential SDP/Gauss-Newton algorithm for rank-constrained LMI problems**

- ☐ Apkarian, P.; Hoang Duong Tuan;  
Decision and Control, 1999. Proceedings of the 38th IEEE Conference on  
Volume 3, 7-10 Dec. 1999 Page(s):2328 - 2333 vol.3  
[AbstractPlus](#) | Full Text: [PDF](#)(476 KB) IEEE CNF
- ☐ 8. **An augmented Lagrangian method for a class of LMI-constrained problems in rol theory**  
Fares, B.; Apkarian, P.; Noll, D.;  
American Control Conference, 2000. Proceedings of the 2000  
Volume 5, 28-30 June 2000 Page(s):3702 - 3706 vol.5  
[AbstractPlus](#) | Full Text: [PDF](#)(420 KB) IEEE CNF
- ☐ 9. **DQIT: /spl mu/-synthesis without D-scale fitting**  
Kuen-Yu Tsai; Hindi, H.A.;  
American Control Conference, 2002. Proceedings of the 2002  
Volume 1, 8-10 May 2002 Page(s):493 - 498 vol.1  
[AbstractPlus](#) | Full Text: [PDF](#)(400 KB) IEEE CNF
- ☐ 10. **Gain-scheduled control for substructure properties**  
Fedigan, S.J.; Knospe, C.R.; Williams, R.D.;  
American Control Conference, 1998. Proceedings of the 1998  
Volume 2, 24-26 June 1998 Page(s):1205 - 1209 vol.2  
[AbstractPlus](#) | Full Text: [PDF](#)(432 KB) IEEE CNF
- ☐ 11. **A frequency domain optimisation algorithm for simultaneous design of performa controllers in  $\mu$ -synthesis**  
Lanzon, A.; Richards, R.J.;  
Decision and Control, 1999. Proceedings of the 38th IEEE Conference on  
Volume 5, 7-10 Dec. 1999 Page(s):4523 - 4528 vol.5  
[AbstractPlus](#) | Full Text: [PDF](#)(464 KB) IEEE CNF
- ☐ 12. **Calculation the Infinite norm ball of constant modulus receivers by D-K iteration:**  
Shing Tenqchen; Ying-Haw Shu; Ming-Chang Sun; Wu-Shiung Feng;  
Signal Processing Systems, 2003. SIPS 2003. IEEE Workshop on  
27-29 Aug. 2003 Page(s):126 - 132  
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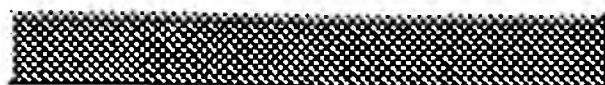
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| <input type="checkbox"/> | <p><b>4. Controller synthesis for Implicitly defined uncertain systems</b><br/> D'Andrea, R.; Paganini, F.;<br/> Decision and Control, 1994., Proceedings of the 33rd IEEE Conference on<br/> Volume 4, 14-16 Dec. 1994 Page(s):3679 - 3684 vol.4<br/> <a href="#">AbstractPlus</a>   Full Text: <a href="#">PDF(484 KB)</a> IEEE CNF</p>                           |
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American Control Conference, 1997. Proceedings of the 1997  
Volume 6, 4-6 June 1997 Page(s):3967 - 3971 vol.6  
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- ☐ 8. **Robust synthesis in  $H_1$  via  $H_\infty$  approach and D-K iteration [Space Shuttle]**  
Shing Tenqchen; Ming-Chang Sun; Wu-Shiung Feng;  
Circuits and Systems, 2002. MWSCAS-2002. The 2002 45th Midwest Symposium on  
Volume 3, 4-7 Aug. 2002 Page(s):III-105 - III-108 vol.3  
[AbstractPlus](#) | Full Text: [PDF\(356 KB\)](#) IEEE CNF
- ☐ 9. **Calculation the infinite norm ball of constant modulus receivers by D-K iterations**  
Shing Tenqchen; Ying-Haw Shu; Ming-Chang Sun; Wu-Shiung Feng;  
Signal Processing Systems, 2003. SIPS 2003. IEEE Workshop on  
27-29 Aug. 2003 Page(s):126 - 132  
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- ☐ 10.  **$\mu$ -synthesis of an electromagnetic suspension system**  
Fujita, M.; Namerikawa, T.; Matsumura, F.; Uchida, K.;  
Automatic Control, IEEE Transactions on  
Volume 40, Issue 3, March 1995 Page(s):530 - 536  
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- ☐ 11. **Robustness analysis and control system design for a hydraulic servo system**  
Cheng Yi; De Moor, B.L.R.;  
Control Systems Technology, IEEE Transactions on  
Volume 2, Issue 3, Sept. 1994 Page(s):183 - 197  
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- ☐ 12. **Design of a robust voltage controller for a buck-boost converter using  $\mu$ -synthesis**  
Buso, S.;  
Control Systems Technology, IEEE Transactions on  
Volume 7, Issue 2, March 1999 Page(s):222 - 229  
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- ☐ 13.  **$\mu$ -synthesis of an electromagnetic suspension system**  
Fujita, M.; Namerikawa, T.; Matsumura, F.; Uchida, K.;  
Decision and Control, 1992., Proceedings of the 31st IEEE Conference on  
16-18 Dec. 1992 Page(s):2574 - 2579 vol.3  
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- ☐ 14. **Multivariable control of a compact disc player using DSPs**  
Steinbuch, M.; van Groos, P.J.M.; Schootstra, G.; Bosgra, O.H.;  
American Control Conference, 1994  
Volume 3, 29 June-1 July 1994 Page(s):2434 - 2438 vol.3  
[AbstractPlus](#) | Full Text: [PDF\(484 KB\)](#) IEEE CNF
- ☐ 15. **Structured singular value controller synthesis using constant D-scales without  $C$**   
Haddad, W.M.; Collins, E.G., Jr.; Moser, R.;  
American Control Conference, 1994  
Volume 3, 29 June-1 July 1994 Page(s):2798 - 2802 vol.3  
[AbstractPlus](#) | Full Text: [PDF\(444 KB\)](#) IEEE CNF
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Helton, J.W.; Merino, O.;  
Decision and Control, 1996., Proceedings of the 35th IEEE

Volume 2, 11-13 Dec. 1996 Page(s):1333 - 1338 vol.2

[AbstractPlus](#) | Full Text: [PDF\(456 KB\)](#) IEEE CNF

- ☐ **17.  $\mu$ -synthesis of a robust voltage controller for a Buck-Boost converter**  
Buso, S.;  
Power Electronics Specialists Conference, 1996. PESC '96 Record., 27th Annual IEEE  
Volume 1, 23-27 June 1996 Page(s):766 - 772 vol.1  
[AbstractPlus](#) | Full Text: [PDF\(496 KB\)](#) IEEE CNF
- ☐ **18. Robust controller design of four wheel steering systems using  $\mu$  synthesis techr**  
Xiaoming Gao; McVey, B.D.; Tokar, R.L.;  
Decision and Control, 1995., Proceedings of the 34th IEEE Conference on  
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Thygesen, U.H.; Skelton, R.E.;  
Decision and Control, 1995., Proceedings of the 34th IEEE Conference on  
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Lu, W.W.; Balas, G.J.;  
Decision and Control, 1995., Proceedings of the 34th IEEE Conference on  
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Yang, K.Y.; Hall, S.R.; Feron, E.;  
American Control Conference, 1997. Proceedings of the 1997  
Volume 2, 4-6 June 1997 Page(s):1235 - 1240 vol.2  
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